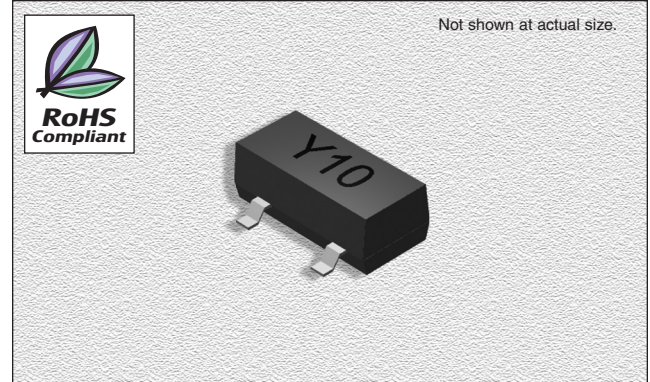


CTZ84C Series

2.4V ~ 39V



CHARACTERISTICS

Description: SOT-23 Plastic-Encapsulated Zener Diode

Features: Planar Die Construction. 350mW Power Dissipation.

Zener Voltages from 2.4V ~ 39V. Ideally Suited for Automated Assembly Process.

Packaging: Tape & Reel

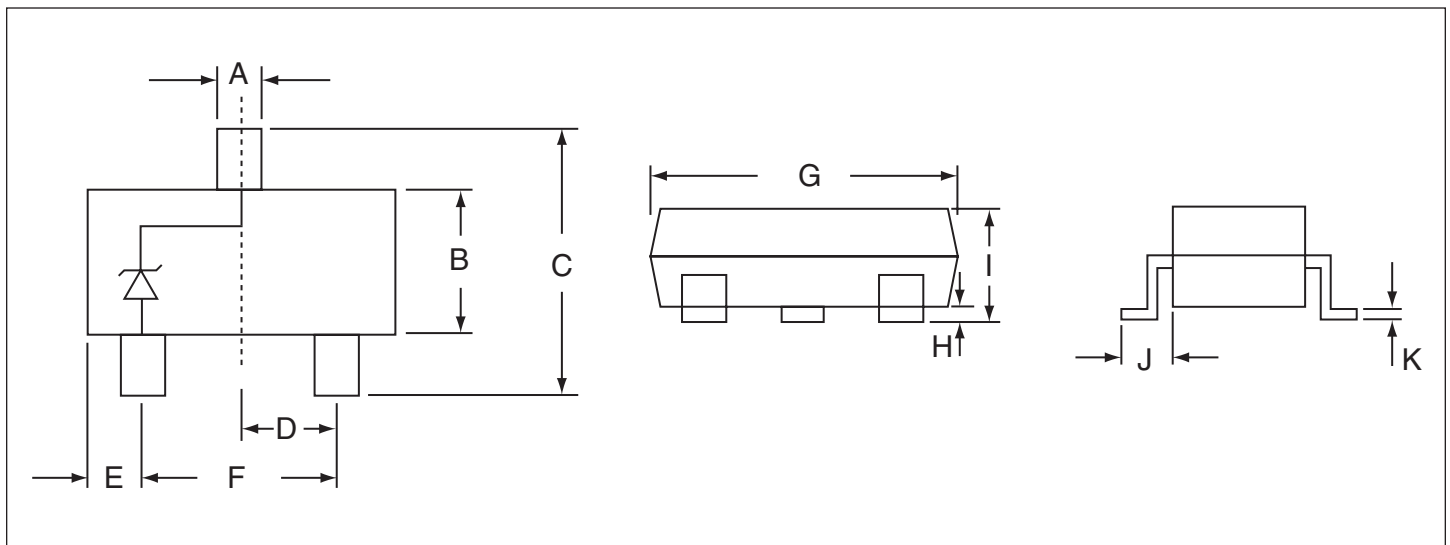
Miscellaneous: RoHS Compliant

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

PHYSICAL DIMENSIONS (mm)

Size	A	B	C	D	E	F	G	H	I	J	K
Min.	0.37	1.19	2.10	0.89	0.45	1.78	2.65	0.013	0.89	0.45	0.076
Max.	0.51	1.40	2.50	1.05	0.61	2.05	3.05	0.015	1.10	0.61	0.178



Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	Value	Unit
Forward Voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Power Dissipation (Note 1)	P_d	350	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R_{thJA}	357	K/W
Operating and Storage Temp. Range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$

Notes: 1. Valid provided that device terminals are kept at ambient temperature

CTZ84C Series

SPECIFICATIONS

Part Number	Marking	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current		Temperature Coefficient of Zener Voltage@I _{ZT} -5Ma mV/°C	
		V _Z @T _{ZT}			I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	V _R	Min.	Max.
		Nom. (V)	Min. (V)	Max. (V)	(mA)	(Ω)		(mA)	(μA)	(V)		
CTZ84C2V4	Z11	2.4	2.2	2.6	5	100	600	1.0	50	1.0	-3.5	0
CTZ84C2V7	Z12	2.7	2.5	2.9	5	100	600	1.0	20	1.0	-3.5	0
CTZ84C3V0	Z13	3.0	2.8	3.2	5	95	600	1.0	10	1.0	-3.5	0
CTZ84C3V3	Z14	3.3	3.1	3.5	5	95	600	1.0	5	1.0	-3.5	0
CTZ84C3V6	Z15	3.6	3.4	3.8	5	90	600	1.0	5	1.0	-3.5	0
CTZ84C3V9	Z16	3.9	3.7	4.1	5	90	600	1.0	3	1.0	-3.5	0
CTZ84C4V3	Z17	4.3	4.0	4.6	5	90	600	1.0	3	1.0	-3.5	0
CTZ84C4V7	Z1	4.7	4.4	5.0	5	80	500	1.0	3	2.0	-3.5	0.2
CTZ84C5V1	Z2	5.1	4.8	5.4	5	60	480	1.0	2	2.0	-2.7	1.2
CTZ84C5V6	Z3	5.6	5.2	6.0	5	40	400	1.0	1	2.0	-2.0	2.5
CTZ84C6V2	Z4	6.2	5.8	6.6	5	10	150	1.0	3	4.0	0.4	3.7
CTZ84C6V8	Z5	6.8	6.4	7.2	5	15	80	1.0	2	4.0	1.2	4.5
CTZ84C7V5	Z6	7.5	7.0	7.9	5	15	80	1.0	1	5.0	2.5	5.3
CTZ84C8V2	Z7	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2
CTZ84C9V1	Z8	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0
CTZ84C10	Z9	10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0
CTZ84C11	Y1	11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0
CTZ84C12	Y2	12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0
CTZ84C13	Y3	13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0
CTZ84C15	Y4	15	13.8	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0
CTZ84C16	Y5	16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0
CTZ84C18	Y6	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0
CTZ84C20	Y7	20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0
CTZ84C22	Y8	22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0
CTZ84C24	Y9	24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0
CTZ84C27	Y10	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3
CTZ84C30	Y11	30	28.0	32.0	2	80	300	0.5	0.1	21.0	24.4	29.4
CTZ84C33	Y12	33	31.0	35.0	2	80	325	0.5	0.1	23.1	27.4	33.4
CTZ84C36	Y13	36	34.0	38.0	2	90	350	0.5	0.1	25.2	30.4	37.4
CTZ84C39	Y14	39	37.0	41.0	2	130	350	0.5	0.1	27.3	33.4	41.2

Notes: 2. Tested with pulses 300μs pulse width, period = 5ms.

3. f = 1KHz